

DISPOSABLE MODULAR HEARING AID

ABSTRACT OF THE DISCLOSURE

The present invention relates to a modular hearing aid having a base unit and a
5 detachable earmold. A battery, an earmold tip and a receiver can be integrated with the
earmold. The earmold can also include a removably attached module. The module can
have a shell, electronics, a receiver or a microphone. A hearing aid also includes a
flexible hearing aid tip having a vibration isolator portion and a mushroom shaped tip
portion. The vibration isolator portion mechanically decouples a receiver from a
10 hearing aid base unit while the mushroom shaped tip portion provides an acoustic seal
in the ear canal of a user. The internal components of a hearing aid can be potted to
attenuate vibrations created by the receiver during operation.

A hearing aid includes a first half shell and a second shell attached to the first
shell. A microphone, battery, electronics, a receiver and a flexible tip are mounted
15 within a housing formed by the first half shell and the second half shell. A mechanical
securing mechanism, located on the first half shell and the second half shell, attaches the
first half shell to the second half shell. A flexible tip for a hearing aid includes a tip
portion, a sound port attached to the tip portion and a vent formed in the flexible tip.
The vent provides static pressure equilibrium between an ear canal and an ambient
20 pressure.